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synchronization code. The frame timing alignment device 5 synchronizes the mobile radio receiver using the identified sequence of the frame synchronization codes with the frame structure of the radio signal received from the specific base station by aligning a timing of the frame structure used in the mobile radio receiver with a start time and an end time of the identified sequence.--.

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In the Claims:

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Sub B' > Claim 7 (amended). In combination with a mobile radio receiver, a device for synchronizing the mobile radio receiver with a frame structure of a radio signal received from one specific base station of a plurality of base stations, each of the base stations transmits a predefined sequence for each frame and the predefined sequence contains N frame synchronization codes, the device comprising:

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a detector;

a decoder, said detector and said decoder used for detecting and decoding the frame synchronization codes transmitted by the specific base station in the mobile radio receiver;

a computing unit for performing calculations on the frame synchronization codes;

a frame timing alignment device for synchronizing the mobile radio receiver using the predefined sequence of the frame synchronization codes, in each case two predefined sequences transmitted by different ones of the base stations differ from another in terms of at least one frame synchronization code; and

an allocation logic allocates a code parameter, characteristic of the frame synchronization code, to each detected and decoded frame synchronization code resulting in N consecutively received code parameters;

At Cost  
said computing unit identifies the predefined sequence transmitted by the specific base station on a basis of a calculation performed on the N consecutively received code parameters, resulting in an identified sequence;

said frame timing alignment device synchronizes the mobile radio receiver using the identified sequence of the frame synchronization codes with the frame structure of the radio signal received from the specific base station by aligning a timing of the frame structure used in the mobile radio receiver with a start time and an end time of the identified sequence.